

Laurel Bridge Software: Migration Success Story #2

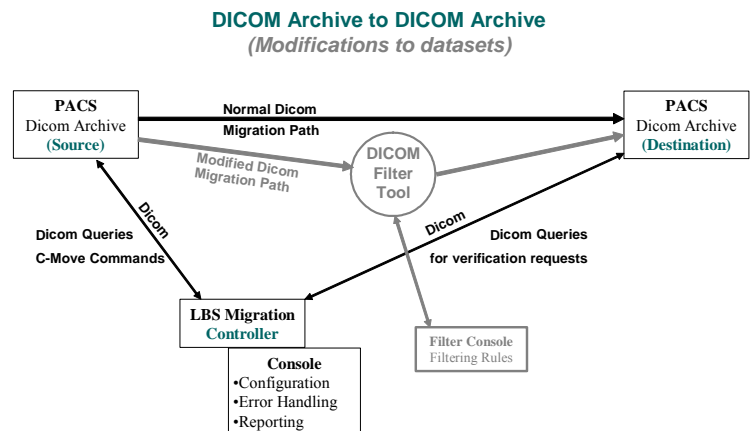
A large PACS vendor had migrated data with their own tool from an existing InsiteOne archive onto a new PACS platform, which was being installed at a Midwestern regional medical center. At the end of the vendor's initial migration process, it was discovered that many of the images for one class of modality, which constituted about 20% or nearly 1 TB of the entire migration, were not viewable on the new PACS system. It was originally thought that some DICOM tag for each of the now "bad" studies had been changed during (or as a result of) their migration to the new archive. It was concluded that only the images for the one class of modality had to be re-migrated, with the hope that they would be then be acceptable to the destination PACS, unfortunately the vendor's tool set did not provide either the ability to migrate data on a per modality basis.

Laurel Bridge Software (LBS) was called in to further diagnose the problem and was asked to re-migrate only the studies that exhibited the viewing problems.

Laurel Bridge installed their Migration Toolkit (LBMT) and configured it to migrate only studies generated from the one modality type which, in this case, was ultrasound study data. After testing of the ultrasound study move, it was discovered that the so-called "problem studies" were actually legitimate DICOM data sets. The real problem was that the image pixel representations contained in certain ultrasound studies were not supported by the new PACS's viewer.

The LBMT's DICOM Filter Tool (DFT) provided an elegant and straightforward solution to this problem. In less than one day, a custom pixel filter was created which could convert the image representation found in the "problem studies" to one that was properly understood by the destination PACS. This custom filter was installed, and the DFT was activated so that all studies being migrated were routed through it in real time. Matching rules in the filter tool were used to determine which studies needed modification, and only those studies had their pixel representations altered. Studies which did not match the provided rules were passed through the filter without modification. With this mechanism in place, all newly migrated ultrasound studies were then viewable on the new PACS system. With the migration progressing, the radiologists once again could begin to access and view the prior ultrasound studies that they needed.

Both the PACS purchaser and supplier were completely satisfied with the performance, flexibility, and ease of use of the LBS migration controller and associated filter tool, both of which are available as part of the Laurel Bridge Migration Toolkit.



Laurel Bridge Software, Inc. (LBS) is a Delaware-based corporation, specializing in providing software tools and utilities to professional software developers, especially in areas related to networking and controlling medical devices. These areas include DICOM connectivity, medical imaging, radiological device control, RIS/HIS networking, and PACS archive migration tools and services.

For further information:

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